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    NEWS 3 MAR 16   CASREACT coverage extended
    NEWS 4 MAR 20   MARPAT now updated daily
    NEWS 5 MAR 22   LWPI reloaded
    NEWS 6 MAR 30   RDISCLOSURE reloaded with enhancements
    NEWS 7 APR 02   JICST-EPLUS removed from database clusters and STN
    NEWS 8 APR 30   GENBANK reloaded and enhanced with Genome Project ID field
    NEWS 9 APR 30   CHEMCATS enhanced with 1.2 million new records
    NEWS 10 APR 30   CA/CAplus enhanced with 1870-1889 U.S. patent records
    NEWS 11 APR 30   INPADOC replaced by INPADOCDB on STN
    NEWS 12 MAY 01   New CAS web site launched
    NEWS 13 MAY 08   CA/CAplus Indian patent publication number format defined
    NEWS 14 MAY 14   RDISCLOSURE on STN Easy enhanced with new search and display
                       fields
    NEWS 15 MAY 21   BIOSIS reloaded and enhanced with archival data
    NEWS 16 MAY 21   TOXCENTER enhanced with BIOSIS reload
    NEWS 17 MAY 21   CA/CAplus enhanced with additional kind codes for German
                       patents
    NEWS 18 MAY 22   CA/CAplus enhanced with IPC reclassification in Japanese
                       patents
    NEWS 19 JUN 18   CA/CAplus to be enhanced with pre-1967 CAS Registry Numbers

    NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
                  MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                  AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

    NEWS HOURS   STN Operating Hours Plus Help Desk Availability
    NEWS LOGIN   Welcome Banner and News Items
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* * * * * * * * * * * * * * * STN   Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:18:31 ON 21 JUN 2007

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                   ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

```
chain nodes :
4   6   7   10   13   15   20   21   22   23   24   25   30   31   32   33   35   36   37   38   39
ring nodes :
1   2   3   5   8   9   11   12   14   16   17   18   19   27   28   29
chain bonds :
1-4   2-6   2-7   3-38   3-39   9-10   11-33   12-13   12-36   14-15   14-35   16-20   16-21
17-22   17-23   18-24   18-25   27-32   27-37   28-30   28-31
ring bonds :
1-2   1-5   2-3   3-8   5-27   8-9   9-11   11-12   12-14   14-16   16-17   17-18   18-19
19-29   27-28   28-29
exact/norm bonds :
1-2   1-4   1-5   2-3   2-6   2-7   3-8   3-38   3-39   5-27   8-9   9-10   9-11   11-12   11-33
12-13   12-14   12-36   14-15   14-16   14-35   16-17   16-20   16-21   17-18   17-22   17-23
18-19   18-24   18-25   19-29   27-28   27-32   27-37   28-29   28-30   28-31
isolated ring systems :
containing 1 :


G1:O,N

Match level :
1:Atom   2:Atom   3:Atom   4:CLASS   5:Atom   6:CLASS   7:CLASS   8:Atom   9:Atom   10:CLASS
 11:Atom   12:Atom   13:CLASS   14:Atom   15:CLASS   16:Atom   17:Atom   18:Atom   19:Atom
20:CLASS   21:CLASS   22:CLASS   23:CLASS   24:CLASS   25:CLASS   27:Atom   28:Atom
29:Atom   30:CLASS   31:CLASS   32:Atom   33:CLASS   35:CLASS   36:CLASS   37:CLASS
38:CLASS   39:CLASS
```
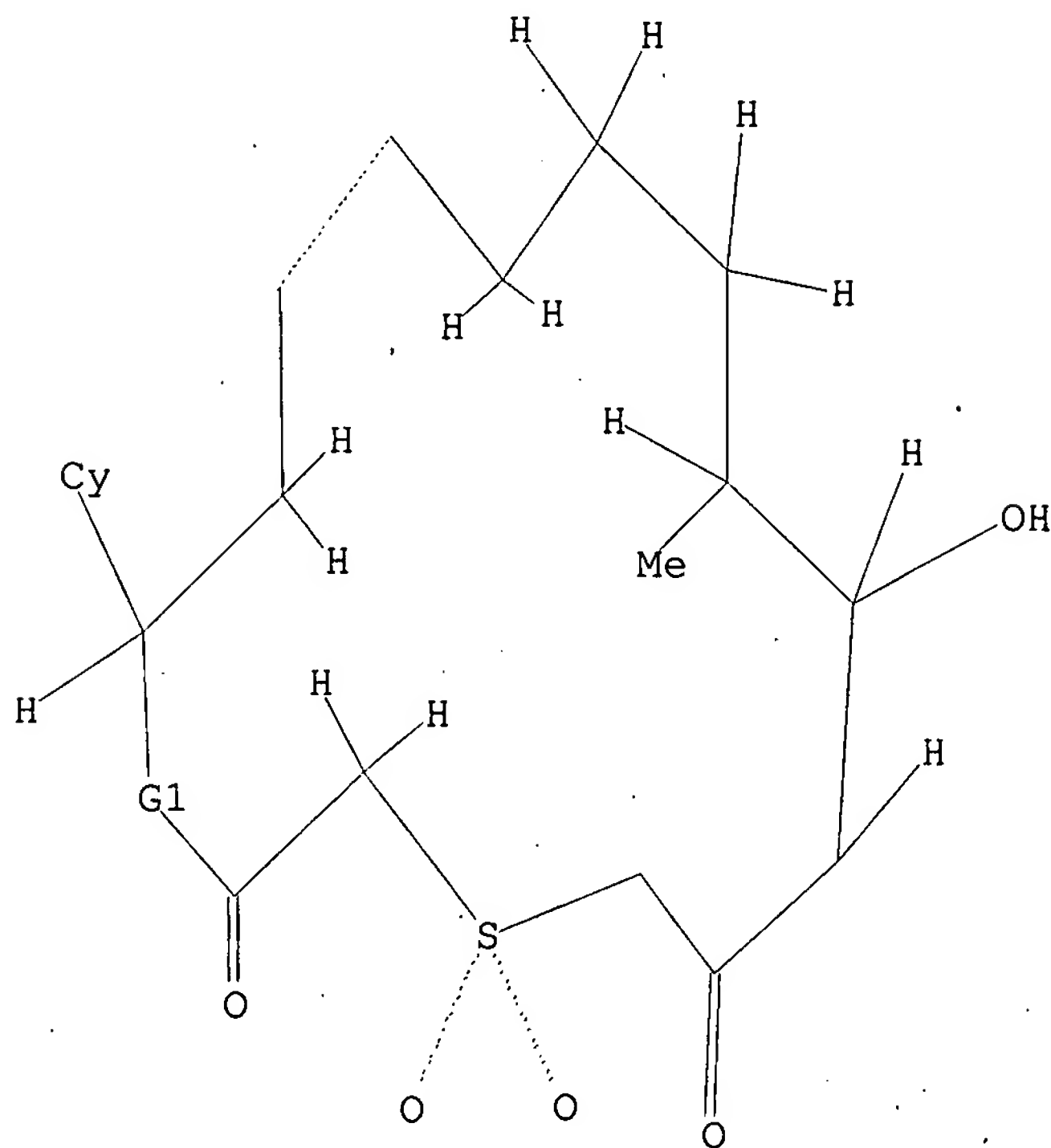
L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 09:19:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   0 TO ITERATE

100.0% PROCESSED   0 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                          BATCH   **COMPLETE**
PROJECTED ITERATIONS: 0 TO   0
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 09:19:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   30 TO ITERATE

100.0% PROCESSED   30 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L3   0 SEA SSS FUL L1

```
=> log y
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

STN INTERNATIONAL LOGOFF AT 09:19:16 ON 21 JUN 2007

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:49:48 ON 21 JUN 2007

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

```
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DICTIONARY FILE UPDATES:   20 JUN 2007   HIGHEST RN 938114-25-1

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predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10580992.str
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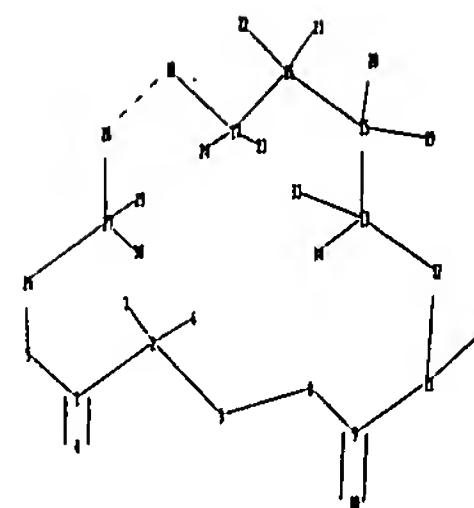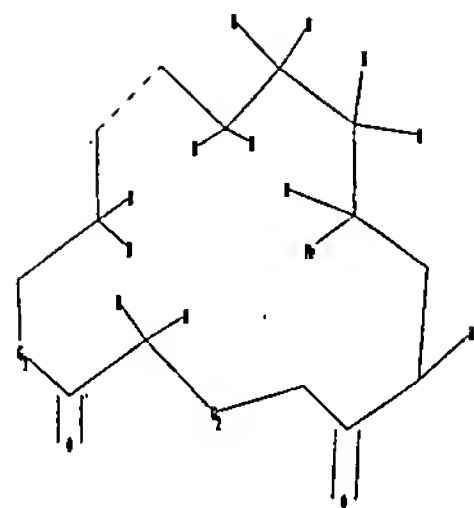
chain nodes :
4   6   7   10   14   19   20   21   22   23   24   29   30   31   33   34   35   36   37
ring nodes :
1   2   3   5   8   9   11   12   13   15   16   17   18   26   27   28
chain bonds :
1-4   2-6   2-7   9-10   11-31   13-14   13-33   15-19   15-20   16-21   16-22   17-23   17-24
27-29   27-30   36-37
ring bonds :
1-2   1-5   2-3   3-8   5-26   8-9   9-11   11-12   12-13   13-15   15-16   16-17   17-18
18-28   26-27   27-28
exact/norm bonds :
1-2   1-4   1-5   2-3   2-6   2-7   3-8   5-26   8-9   9-10   9-11   11-12   11-31   12-13
13-14   13-15   13-33   15-16   15-19   15-20   16-17   16-21   16-22   17-18   17-23   17-24
18-28   26-27   27-28   27-29   27-30   36-37

G1:O,N

G2:[*1-*2],[*3-*4],[*5-*6]

Match level :
1:Atom 2:Atom 3:Atom 4:CLASS 5:Atom 6:CLASS 7:CLASS 8:Atom 9:Atom 10:CLASS
 11:Atom 12:Atom 13:Atom 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 26:Atom 27:Atom 28:Atom
29:CLASS 30:CLASS 31:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   0.45   0.66

=> s l1 full
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 09:50:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   21238 TO ITERATE

100.0% PROCESSED   21238 ITERATIONS   3 ANSWERS

```
SEARCH TIME: 00.00.02

L2              3 SEA SSS FUL L1



L3              1 L2

=> file reg
COST IN U.S. DOLLARS                          SINCE FILE        TOTAL
                                                  ENTRY       SESSION
FULL ESTIMATED COST                                0.47        173.70

FILE 'REGISTRY' ENTERED AT 09:51:06 ON 21 JUN 2007
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experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s l1 full
FULL SEARCH INITIATED 09:51:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    21238 TO ITERATE

100.0% PROCESSED    21238 ITERATIONS                      3 ANSWERS
SEARCH TIME: 00.00.01

L4              3 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE        TOTAL
                                                  ENTRY       SESSION
FULL ESTIMATED COST                              172.10        345.80

FILE 'CAPLUS' ENTERED AT 09:51:15 ON 21 JUN 2007
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```

```
=> s l4 full
L5              1 L4

=> d ibib abs hitstr tot
```

L5   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:493605 CAPLUS
DOCUMENT NUMBER: 143:26422
TITLE: Preparation of macrocyclic thiaepothilones for
                           treating cancer
INVENTOR(S):   Wessjohann, Ludger A.; Eichelberger, Uwe; Thi Phuong,
                           Thao Tran
PATENT ASSIGNEE(S):   Leibniz-Institut fuer Pflanzenbiochemie IPB, Germany
SOURCE: PCT Int. Appl., 42 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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        PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
        ---------------      ----   --------    --------------------    --------
        WO 2005051947         A1    20050609    WO 2004-EP13451         20041126
            W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
                CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
                LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
                NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
                TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
            RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
                AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
                EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,
                SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
                NE, SN, TD, TG
        DE 10355223           A1    20050630    DE 2003-10355223        20031126
        EP 1687301            A1    20060809    EP 2004-798099          20041126
            R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
        US 2007105905         A1    20070510    US 2005-580992          20050526
PRIORITY APPLN. INFO.:                          DE 2003-10355223     A  20031126
                                                WO 2004-EP13451      W  20041126
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OTHER SOURCE(S):   MARPAT 143:26422
GI

I

II
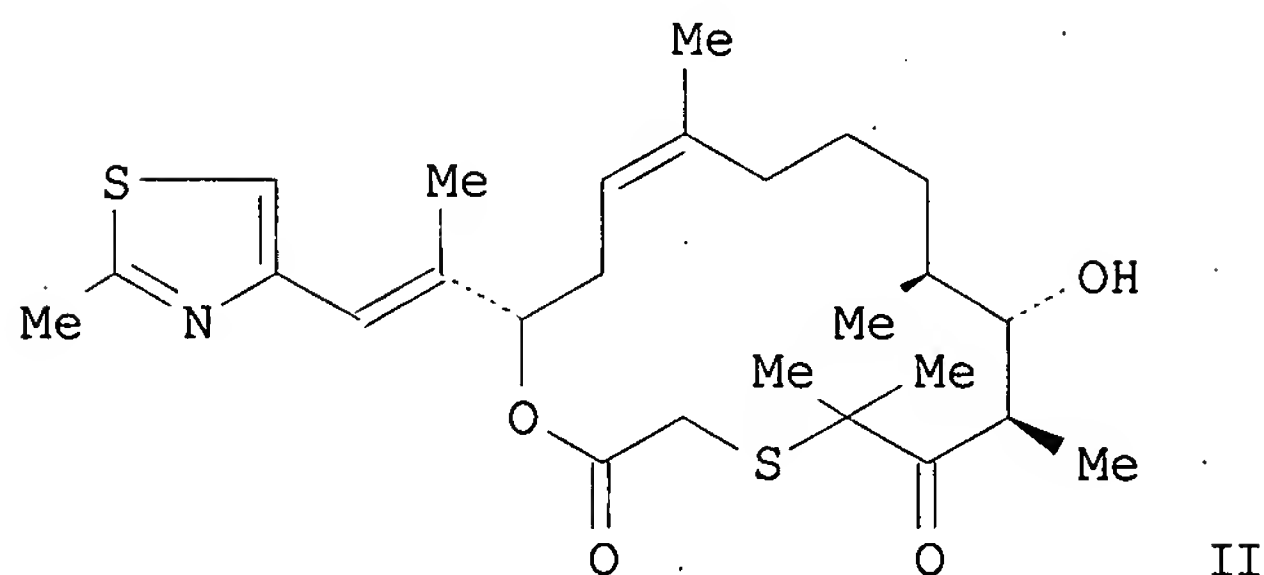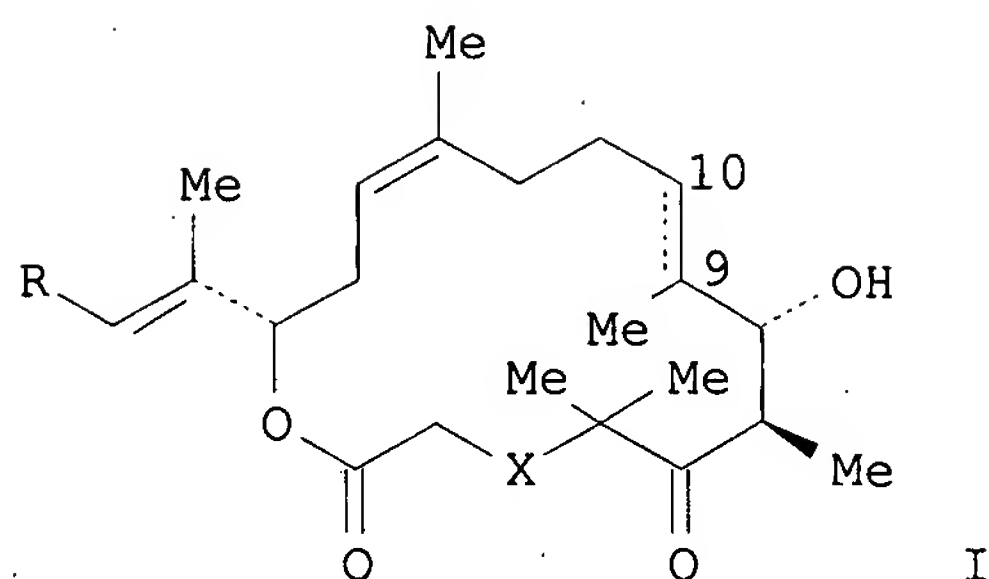
AB   Thiaepothilone macrolides, such as I [R = heteroaryl, such as
      2-methyl-4-thiazolyl, 2-methyl-4-oxazolyl or 6-methyl-2-pyridinylmethyl; X
      = S, SO, SO2; 9,10-bond = single or double], were prepared for therapeutic
      use and antitumor agents. Thus, thiaepothilone macrolide II was prepared
      via a multistep macrocyclization sequence starting from Me2CHCOCH2Me,
      HSCH2CO2Et, (BrCH2)2CO, neryl bromide and tributyl[(2-methyl-4-
      thiazolyl)methyl]phosphonium chloride. The prepared thiaepothilones were
      assayed for their effect on cell proliferation of MCF7, L929 and A549
      cancer cell lines.
IT   853023-23-1P
      RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
      preparation); THU (Therapeutic use); BIOL (Biological study); PREP
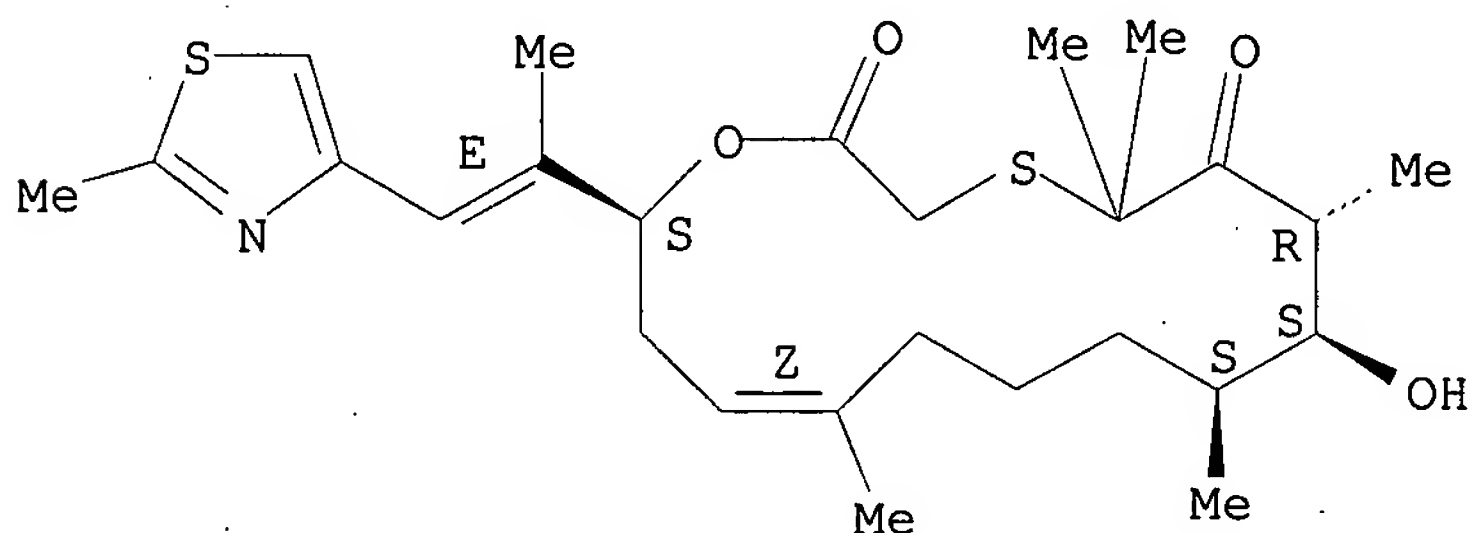   (Preparation); RACT (Reactant or reagent); USES (Uses)
          (preparation of macrocyclic thiaepothilones for treating cancer)
RN   853023-23-1 CAPLUS
CN   1-Oxa-4-thiacyclohexadec-13-ene-2,6-dione, 8-hydroxy-5,5,7,9,13-
      pentamethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-,
      (7R,8S,9S,13Z,16S)- (9CI)   (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

IT   853023-24-2P 853023-26-4P
   RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
      (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
      (Uses)
          (preparation of macrocyclic thiaepothilones for treating cancer)
RN   853023-24-2 CAPLUS

CN   1-Oxa-4-thiacyclohexadec-13-ene-2,6-dione, 8-hydroxy-5,5,7,9,13-
      pentamethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-,
      4,4-dioxide, (7R,8S,9S,13Z,16S)- (9CI)   (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.
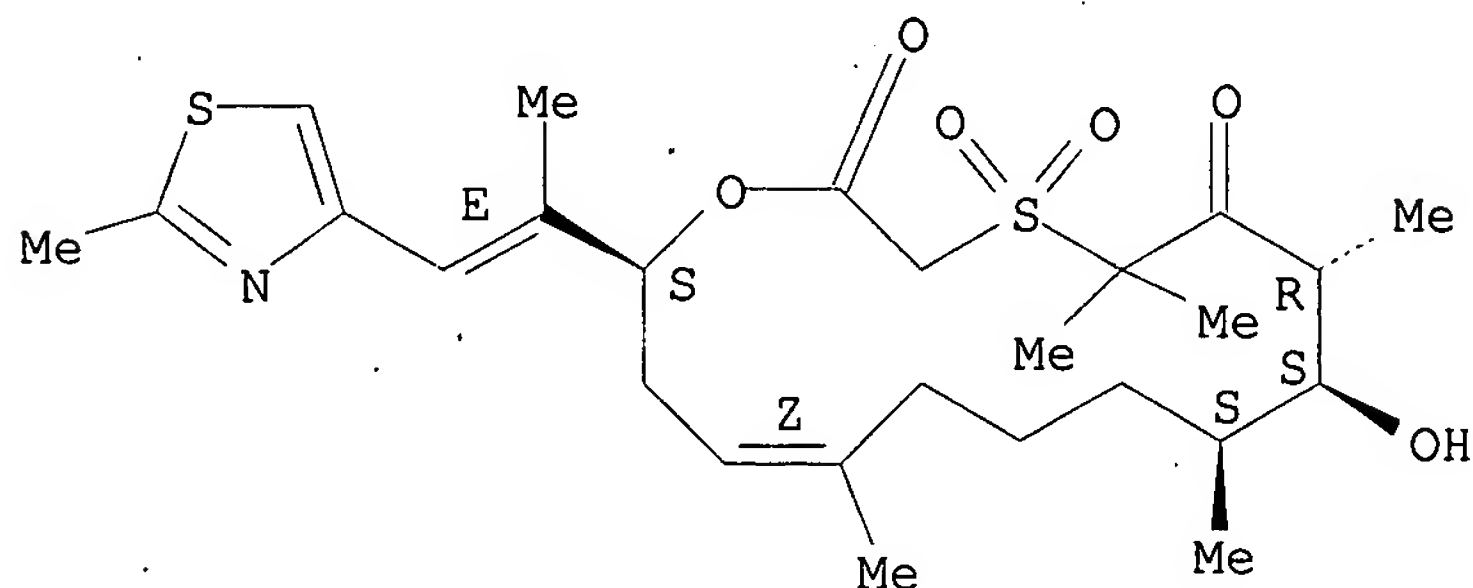
RN   853023-26-4 CAPLUS
CN   1-Oxa-4-thiacyclohexadec-13-ene-2,6-dione, 8-hydroxy-5,5,7,9,13-
      pentamethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, 4-oxide,
      (7R,8S,9S,13Z,16S)- (9CI)   (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.
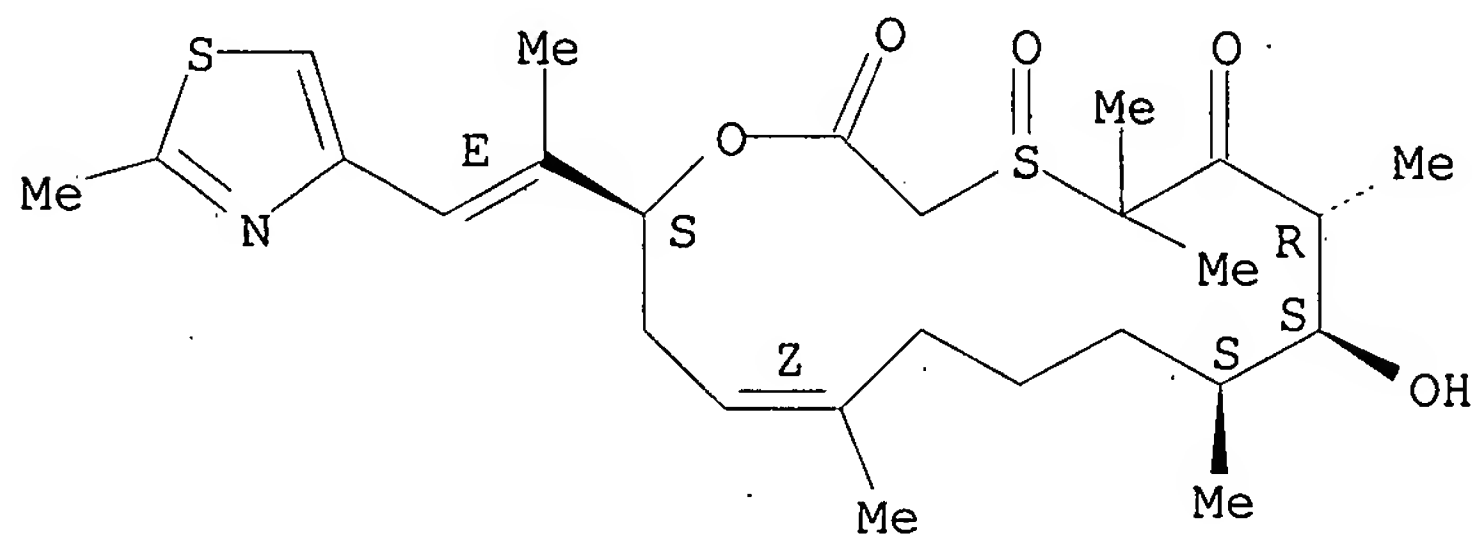
REFERENCE COUNT: 4   THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

        (FILE 'HOME' ENTERED AT 09:49:48 ON 21 JUN 2007)

        FILE 'REGISTRY' ENTERED AT 09:49:59 ON 21 JUN 2007
L1   STRUCTURE UPLOADED

        FILE 'CAPLUS' ENTERED AT 09:50:34 ON 21 JUN 2007
                 S L1

        FILE 'REGISTRY' ENTERED AT 09:50:44 ON 21 JUN 2007
L2   3 S L1 FULL

        FILE 'CAPLUS' ENTERED AT 09:50:46 ON 21 JUN 2007
L3   1 S L2 FULL

        FILE 'REGISTRY' ENTERED AT 09:51:06 ON 21 JUN 2007
L4   3 S L1 FULL

        FILE 'CAPLUS' ENTERED AT 09:51:15 ON 21 JUN 2007
L5   1 S L4 FULL

```
=> log y
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.62	353.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-0.78

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     NEWS 16   MAY 21   TOXCENTER enhanced with BIOSIS reload
     NEWS 17   MAY 21   CA/CAplus enhanced with additional kind codes for German
                         patents
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FILE 'HOME' ENTERED AT 09:08:30 ON 21 JUN 2007

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

   Please note that search-term pricing does apply when
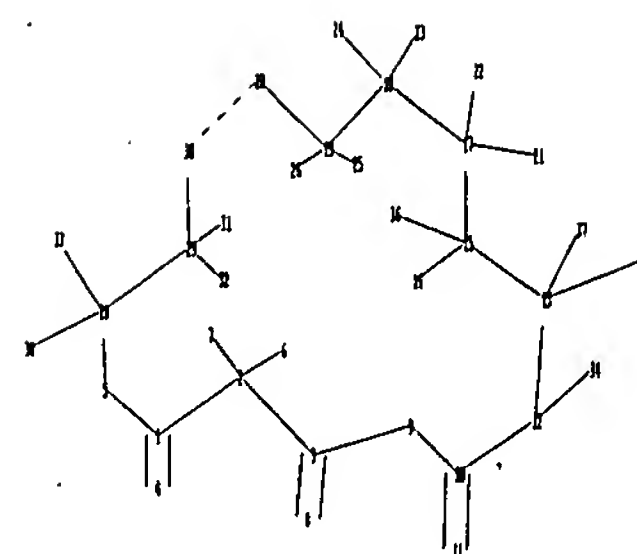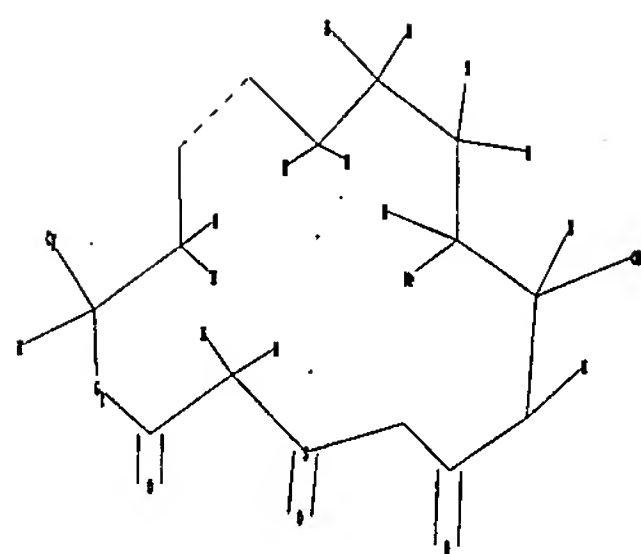 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10580992.str

chain nodes :
4   6   7   8   11   14   16   21   22   23   24   25   26   31   32   33   34   36   37   38
ring nodes :
1   2   3   5   9   10   12   13   15   17   18   19   20   28   29   30
chain bonds :
1-4   2-6   2-7   3-8   10-11   12-34   13-14   13-37   15-16   15-36   17-21   17-22   18-23
18-24   19-25   19-26   28-33   28-38   29-31   29-32
ring bonds :
1-2   1-5   2-3   3-9   5-28   9-10   10-12   12-13   13-15   15-17   17-18   18-19   19-20
20-30   28-29   29-30
exact/norm bonds :
1-2   1-4   1-5   2-3   2-6   2-7   3-8   3-9   5-28   9-10   10-11   10-12   12-13   12-34
13-14   13-15   13-37   15-16   15-17   15-36   17-18   17-21   17-22   18-19   18-23   18-24
19-20   19-25   19-26   20-30   28-29   28-33   28-38   29-30   29-31   29-32
isolated ring systems :
containing 1 :
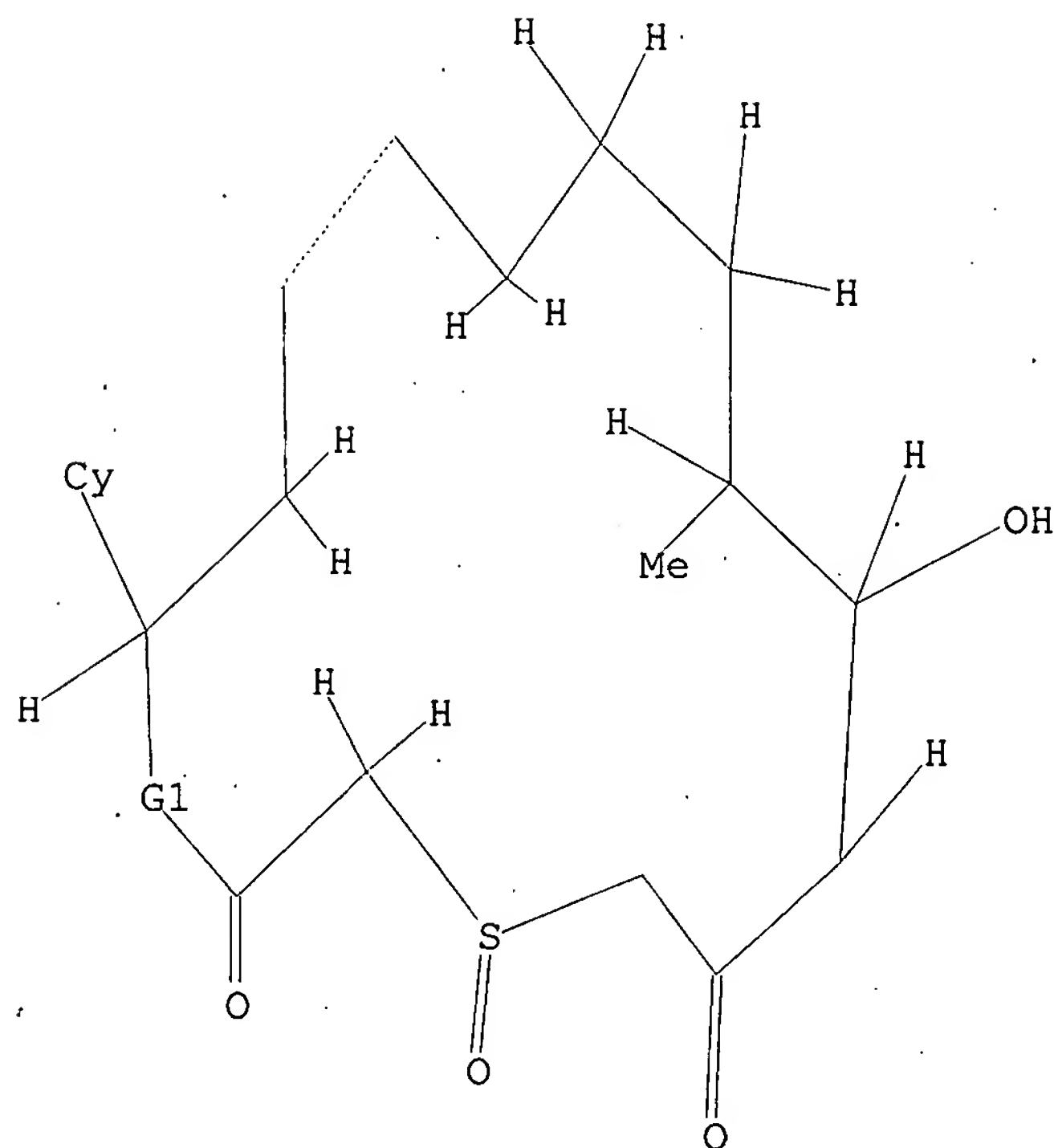

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom   4:CLASS   5:Atom   6:CLASS   7:CLASS   8:CLASS   9:Atom   10:Atom
 11:CLASS   12:Atom   13:Atom   14:CLASS   15:Atom   16:CLASS   17:Atom   18:Atom   19:Atom
 20:Atom   21:CLASS   22:CLASS   23:CLASS   24:CLASS   25:CLASS   26:CLASS   28:Atom
29:Atom   30:Atom   31:CLASS   32:CLASS   33:Atom   34:CLASS   36:CLASS   37:CLASS
38:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 09:09:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   0 TO ITERATE

100.0% PROCESSED   0 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 0 TO   0
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 09:09:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   75 TO ITERATE

100.0% PROCESSED   75 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L3   0 SEA SSS FUL L1

```
=> d his

        (FILE 'HOME' ENTERED AT 09:08:30 ON 21 JUN 2007)

        FILE 'REGISTRY' ENTERED AT 09:08:52 ON 21 JUN 2007
L1              STRUCTURE UPLOADED
L2         0 S L1
L3         0 S L1 FULL

=> log y
COST IN U.S. DOLLARS                           SINCE FILE      TOTAL
                                                   ENTRY      SESSION
FULL ESTIMATED COST                               172.55       172.76

STN INTERNATIONAL LOGOFF AT 09:10:21 ON 21 JUN 2007
```